ATPESC 2017

July 30–August 11

PROGRAM CURRICULUM

Renowned scientists, HPC experts, and leaders serve as lecturers and guide hands-on sessions. ATPESC participants will be granted access to DOE Office of Science User Facilities, which are amongst the most powerful supercomputers in the world.

The core curriculum includes:

- ☐ Computer architectures and their predicted evolution
- ☐ Programming methodologies effective across a variety of today's supercomputers and that are expected to be applicable to exascale systems
- ☐ Numerical algorithms and mathematical software
- ☐ Approaches to building community codes for HP systems
- ☐ Data analysis, visualization, I/O, and methodologies and tools for Big Data applications
- ☐ Performance measurement and debugging tools

Argonne Training Program on Extreme-Scale Computing (ATPESC) is an intensive two-week program focused on HPC methodologies that are applicable to both current and future machine architectures, including exascale systems.

ATPESC provides advanced training to 60 participants. Qualified applicants must have:

- ☐ Substantial experience in MPI and/or OpenMP programming,
- ☐ Used at least one HPC system for a complex application, and
- ☐ Plans to conduct CS&E research on large-scale computers.

Admission to the ATPESC program is highly competitive. Participant support is provided, including domestic airfare, meals, and lodging.

ATPESC is part of the Exascale Computing Project, a collaborative effort of the DOE Office of Science and the National Nuclear Security Administration.

APPLICATION DETAILS

Applications for ATPESC 2017 are due by March 10, 2017. All doctoral students, postdocs, and computational scientists are encouraged to submit applications. To apply, visit the ATPESC website at extremecomputingtraining.anl.gov

U.S. DEPARTMENT OF ENERGY | NNSA National Nuclear Security Administration | ECP EXASCALE COMPUTING PROJECT | Argonne NATIONAL LABORATORY

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